DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12446750 Three-Phase : 284/6TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 182 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.3310 kgm² Design : B Output [HP] 15 10 10 10 15 15 15 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 22.2 35.8/17.9 15.5 15.1 15.0 20.9 20.2 L. R. Amperes [A] 233/116 112 119 124 104 111 117 LRC [A] 6.5x(Code 7.2x(Code J) 7.9x(Code K) 8.3x(Code K) 4.7x(Code E) 5.3x(Code F) 5.8x(Code G) G) No load current [A] 7.50 14.8/7.40 7.50 8.00 8.50 8.00 8.50 Rated speed [RPM] 1175 980 985 985 965 970 975 Slip [%] 2.08 2.00 1.50 1.50 3.50 3.00 2.50 Rated torque [kgfm] 9.26 7.41 7.37 7.37 11.3 11.2 11.2 Locked rotor torque [%] 229 270 300 330 170 200 220 Breakdown torque [%] 240 290 340 360 200 220 240 1.00 Service factor 1.25 1.25 1.25 1.25 1.15 1.15 Temperature rise 80 K 27s (cold) 27s (cold) Locked rotor time 36s (cold) 55s (cold) 50s (cold) 46s (cold) 27s (cold) 20s (hot) 31s (hot) 28s (hot) 26s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 59.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 91.0 89.0 89.1 89.1 91.0 90.2 90.2 Efficiency (%) 75% 91.7 89.4 89.5 89.5 90.2 90.2 91.0 100% 91.7 89.4 89.5 89.5 88.5 89.5 90.2 25% 50% 0.69 0.64 0.61 0.58 0.73 0.72 0.70 Power Factor 75% 0.80 0.76 0.73 0.71 0.82 0.81 0.80 100% 0.84 0.82 0.80 0.78 0.85 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.5 11.0 11.2 8.9 8.8 11.0 9.2 P2 (0,5;1,0) 6.8 8.8 8.8 8.9 7.3 7.1 7.0 P3 (0,25;1,0) 6.4 8.2 8.2 8.3 6.9 6.7 6.6 P4 (0,9;0,5) 5.1 6.6 6.6 6.7 5.5 5.3 5.3 Losses (%) P5 (0,5;0,5) 3.4 4.4 4.4 4.5 3.7 3.6 3.5 P6 (0,5;0,25) 2.6 3.4 3.4 3.5 2.8 2.8 2.7 P7 2.4 2.4 2.4 2.0 1.9 1.9 1.9 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6311 C3 6211 C3 : 292 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 474 kgf Lubrication interval 20000 h 20000 h 11 g Lubricant amount 18 q Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 13/11/2025 1/9 Date

DATA SHEET

Checked by

Date

13/11/2025



Three Pha	se Induction Motor - Squirrel Cage		<u> ШЕЦ</u>	
Customer	:			
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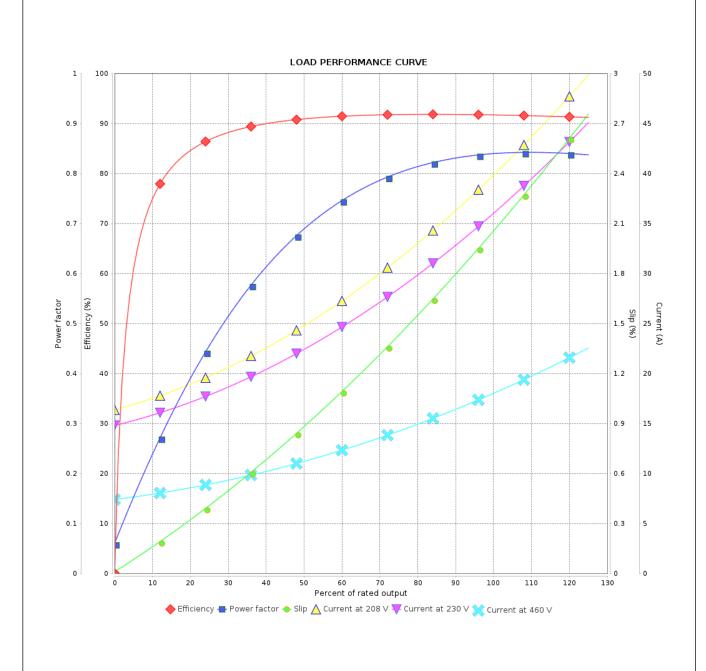
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance		: 230/460 V 60 Hz 6P				
Rated current		: 35.8/17.9 A	Moment of inertia (J)		: 0.3310 kgm²	
LRC		: 6.5	Duty cycle)	: Cont.(S1)	
Rated torque		: 9.26 kgfm	Insulation class		: F	
Locked rotor tord	que	: 229 %	Service fa	ictor	: 1.25	
Breakdown torqu	ue	: 240 %	Temperat	ure rise	: 80 K	
Rated speed : 1175 rpm Design			: B			
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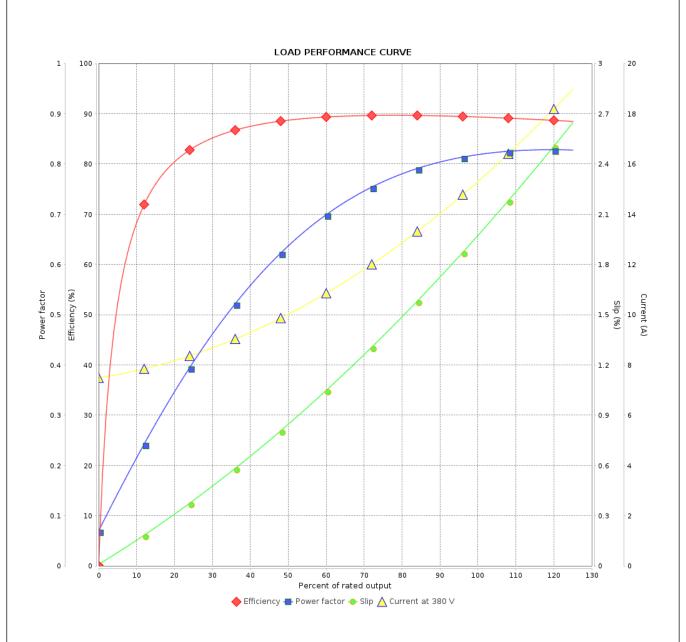
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750





Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 15.5 A	Moment of	f inertia (J)	: 0.3310 kgm²	
LRC	: 7.2	Duty cycle	·	: Cont.(S1)	
Rated torque	: 7.41 kgfm	Insulation	class	: F ` ´	
Locked rotor torque	: 270 %	Service factor Temperature rise Design		: 1.25	
Breakdown torque	: 290 %			: 80 K	
Rated speed	: 980 rpm			: B	
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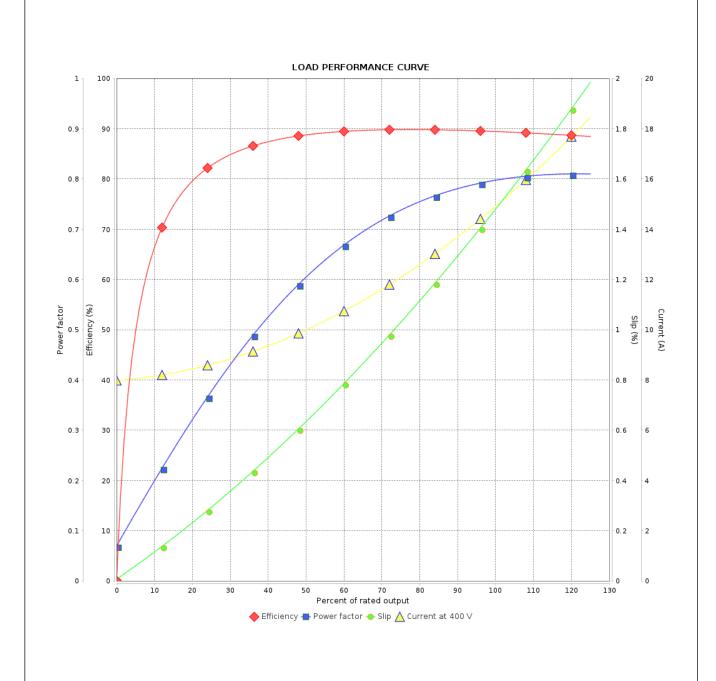
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	•	: 15.1 A : 7.9 : 7.37 kgfm : 300 % : 340 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3310 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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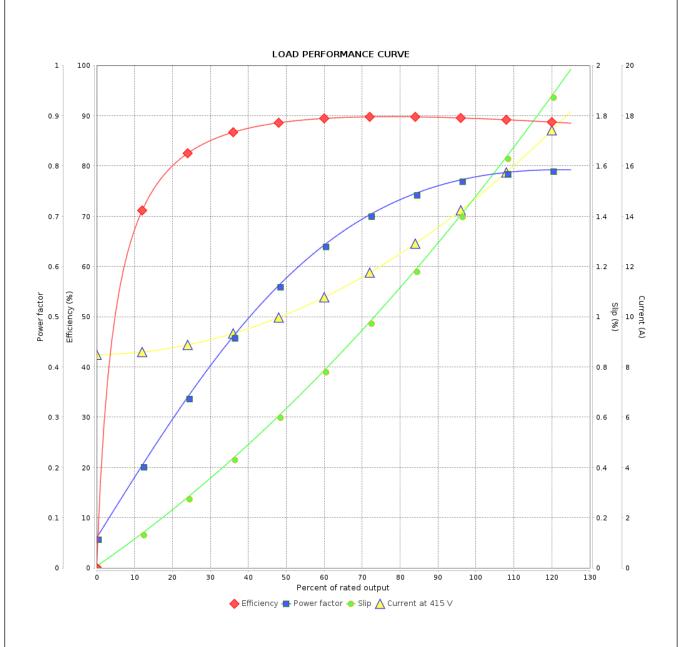
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 7 jue : 3	5.0 A 3.3 7.37 kgfm 330 % 360 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.3310 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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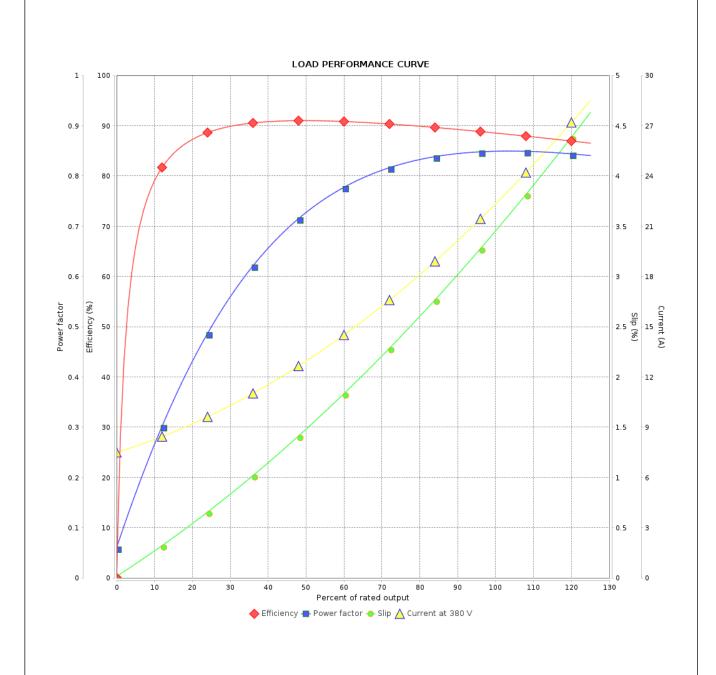
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Pay	Changas Summary		Dorformed	Chooked	Doto
Rated speed	: 965 rpm	Design		: B	
Breakdown torque	: 200 %	Temperat	ure rise	: 80 K	
Locked rotor torque	: 170 %	Service fa	actor	: 1.00	
Rated torque	: 11.3 kgfm	Insulation	class	: F	
LRC	: 4.7	Duty cycle	9	: Cont.(S1)	
Rated current	: 22.2 A	Moment of	of inertia (J)	: 0.3310 kgm	2
Performance	: 380 V 50 Hz 6P IE1				
					

Maleu Speeu	. 9	05 Ipili	Design		. Б	
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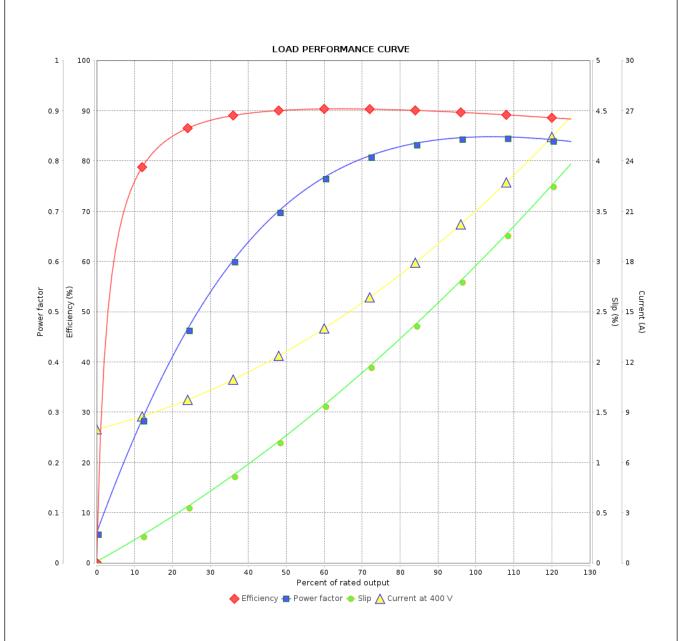
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.3310 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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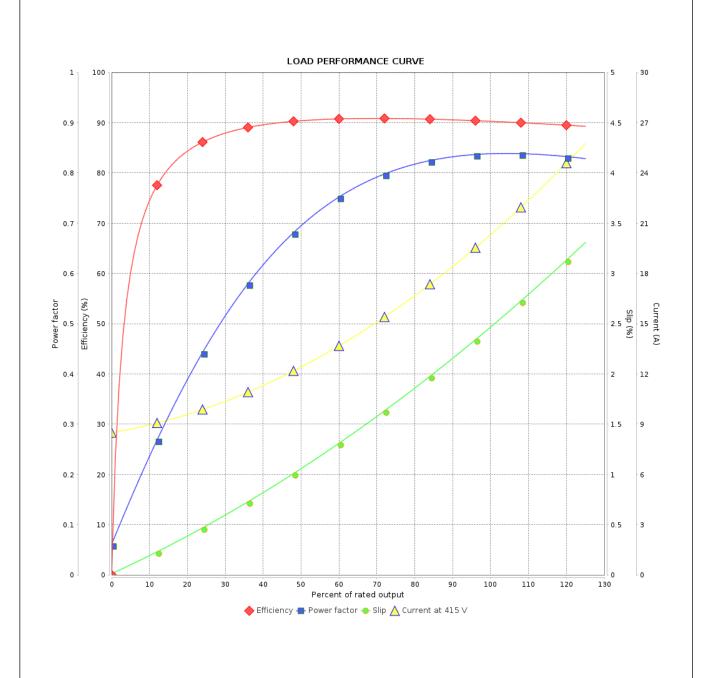


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Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



D (445.450.1	L 0D IE0			
Performance	: 415 V 50 H	HZ 6P IE2			
Rated current	: 20.2 A	Moment of	of inertia (J)	: 0.3310 kgm²	
LRC	: 5.8	Duty cycle	•	: Cont.(S1)	
Rated torque	: 11.2 kgfm	Insulation	Insulation class		
Locked rotor tord	ue : 220 %	Service fa	Service factor		
Breakdown torqu	e : 240 %	Temperat	ure rise	: 80 K	
Rated speed	: 975 rpm	Design		: B	
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